



# Poly Partner Mode User Guide 4.4.0

## SUMMARY

This guide provides the end-user with task-based user information for the featured product.

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# 1 About this guide






This section provides clarifying information about this guide.

## Audience, purpose, and required skills

This guide is intended for beginning users, as well as intermediate and advanced users, who want to learn how to use the features available with Poly G7500, Poly Studio G62, and Poly Studio X series .

## Icons used in Poly documentation

This section describes the icons used in Poly documentation and what they mean.

- 
-  **WARNING!** Indicates a hazardous situation that, if not avoided, **could** result in serious injury or death.
  -  **CAUTION:** Indicates a hazardous situation that, if not avoided, **could** result in minor or moderate injury.
  -  **IMPORTANT:** Indicates information considered important but not hazard-related (for example, messages related to property damage). Warns the user that failure to follow a procedure exactly as described could result in loss of data or in damage to hardware or software. Also contains essential information to explain a concept or to complete a task.
  -  **NOTE:** Contains additional information to emphasize or supplement important points of the main text.
  -  **TIP:** Provides helpful hints for completing a task.
-

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## 2 Getting Started

Before you use your system, familiarize yourself with its features and local interface.

### Poly Partner Mode Overview

Poly Partner Mode allows you to run third-party conferencing applications on supported Poly video systems. For example, after powering on your system for the first time, you can select Zoom Rooms to place Zoom calls.



**NOTE:** Observe the following when using your system in partner mode:

- Not all providers are supported on all systems. For the latest information on partner applications supported on each system, see the *Poly VideoOS Release Notes*.
- Dialpad and Google Meet aren't supported on Poly G7500 systems.
- As of Poly VideoOS 4.2.0, BlueJeans is no longer supported. After updating to Poly VideoOS 4.2.0, systems that are still using BlueJeans will automatically update to Poly Video Mode.
- Poly Studio G62 is certified for Microsoft Teams Rooms and Zoom Rooms.

Certification for Tencent and other providers is pending.

Refer to the supported partner documentation for information on using third-party applications:

- **Microsoft Teams Rooms:** <https://support.office.com/en-us/teams>
- **Zoom Rooms:** <https://support.zoom.us/hc/en-us>
- **Google Meet:** <https://apps.google.com/meet/>
- **Dialpad:** <https://help.dialpad.com/>  
(Not supported on Poly Studio G62 and Poly G7500)
- **GoToRoom by LogMeIn:** <https://support.goto.com/products>
- **RingCentral Rooms (RCV Rooms):** <https://support.ringcentral.com/>
- **Tencent:** <https://meeting.tencent.com/cloud-rooms.html>

# Navigating Your System

The system has icons and user screens to help you navigate and understand important information about your system.


When the system is running a partner application such as Teams Rooms or Zoom Rooms, the partner application provides controls and a user interface specific to their application.

When you pair a Poly TC8 touch controller with your system, the partner application presents the system controls on the TC8 touch controller.

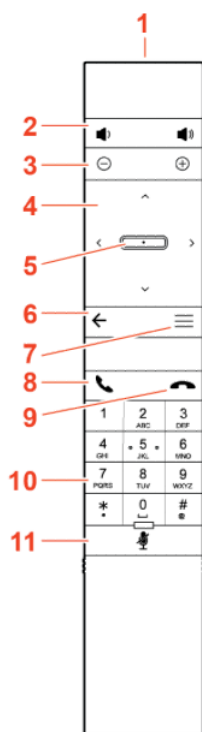
Available system controls vary between partner applications.

## Poly IR Remote Control Button Functions

When you connect a Poly IR receiver to your G7500 or Studio X system, you can use the Poly IR remote control to navigate your system.

 **NOTE:** Remote control functionality may be limited in other partner applications.

The following illustration and table show the buttons and functionality of the Poly IR remote control.



**Table 2-1** IR Remote Button Functions


| Item | Description | Function                            |
|------|-------------|-------------------------------------|
| 1    | IR LED      | Sends IR signals to the IR receiver |
| 2    | Volume      | Increase or decrease the volume     |
| 3    | Camera zoom | Zoom the camera in or out           |

**Table 2-1** IR Remote Button Functions (continued)

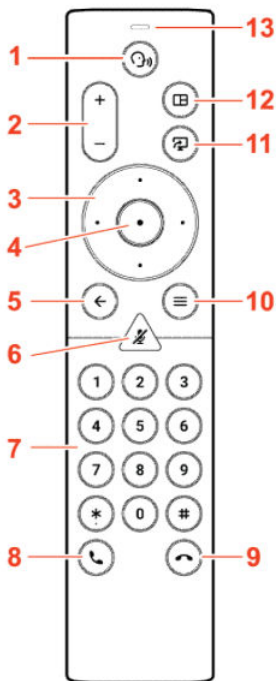
| Item | Description         | Function   |
|------|---------------------|--|
| 4    | Navigation controls | Navigate the user interface.   |
| 5    | Select              | Select an item on the user interface or adjust a toggle                |
| 6    | Back arrow          | Return to the previous screen  |
| 7    | Menu                | In Poly Video mode only, show or hide the settings and camera controls |
| 8    | Call                | Display the calls screen or answer an incoming call                    |
| 9    | End call            | End an active call or reject an incoming call                          |
| 10   | Dialpad             | Dial a number  |
| 11   | Mute                | Mute or unmute the system microphones                                  |

## Bluetooth Remote Control Button Functions

When you pair the Poly Bluetooth remote control with your Poly Studio G62, Poly G7500, or Poly Studio X system, you can use the remote control to navigate your system.

 **NOTE:** Remote control functionality may be limited in other partner applications.

The following illustration and table show the buttons and functionality of the Bluetooth remote control. The functionality is specific to Poly Video mode.



**Table 2-2 IR Remote Button Functions**

| Item | Description                | Function   |
|------|----------------------------|--|
| 1    | Voice Assistant            | Feature planned for future use   |
| 2    | Volume or zoom             | Adjust volume up and down or, in camera mode, zoom the camera in or out  |
| 3    | Navigation controls        | Navigate the screen<br>In camera mode, controls camera pan and tilt  |
| 4    | Select                     | Select an item on the user interface or adjust a toggle  |
| 5    | Back arrow                 | Return to the previous screen  |
| 6    | Mute                       | Mute the system microphones.<br>Long press to pair the remote control with the system  |
| 7    | Keypad                     | Dial a number.<br>Select camera presets while in a call in   |
| 8    | Call button                | Display the calls screen or answer an incoming call  |
| 9    | End call                   | End an active call, reject an incoming call, or end a meeting  |
| 10   | Menu                       | Open the available system menu to access features  |
| 11   | Present content            | From the home screen, display the content help screen<br>In a meeting, open the content tray and select available content to share |
| 12   | Layout                     | Open the layout screen to choose how two or more participants display on the screen  |
| 13   | Voice Assistant Microphone | Feature planned for future use   |


## Enable TalkBack in Microsoft Teams Rooms

 **NOTE:** Talkback is disabled by default. If the device restarts, you'll need to reenable Talkback.

1. On the touch controller, select **More > Settings > Device Settings > Accessibility**.
2. Enable **Talkback**.

## Navigating Talkback in Microsoft Teams Rooms

Navigate the user interface by touch using a menu of available gestures. As you navigate the screen, the device announces the item you select.

 **NOTE:** Items in the **Settings** menu may appear below the screen. To access items below the screen, use two fingers to scroll up or swipe right on the screen to go down the list.

### Talkback Navigation

| Touch Gesture | Result  |
|---------------|---|
| Swipe right   | Moves to the next user interface element and announces the element name     |
| Swipe left    | Moves to the previous user interface element and announces the element name |

| Touch Gesture                     | Result   |
|-----------------------------------|--|
| Drag one finger around the screen | Speaks the name of the user interface item or the onscreen text as your finger moves over it |
| Double tap the screen             | Selects the user interface item currently in focus   |
| Swipe down then left              | Returns to the main screen   |
| Swipe up or down and right        | Opens the Talkback menu  |
| Swipe up or down with two fingers | Scrolls through menu items   |
| Swipe down then left              | Return to the main screen  |

## Using a Connected Trio in a Microsoft Teams Rooms Environment

Poly Trio speakerphones are used as external speakers and microphones for your system.



**NOTE:** The Microsoft Teams Rooms controller on the Trio speakerphone offers limited functionality and is not supported as a Teams Rooms controller. Use a connected TC8 or touch screen monitor to control your Microsoft Teams Rooms environment.

From a connected Poly Trio in Microsoft Teams Rooms mode, you can:

- Mute or unmute the microphones
- Adjust the call volume

# Product Overview of Poly Video Systems

Poly Studio G62, Poly G7500, Poly Studio X72, Poly Studio X70, Poly Studio X52, Poly Studio X50, and Poly Studio X30 systems support Poly video conferencing and content sharing features.

## Poly Studio G62 product overview

The Poly Studio G62 system is a modular video conferencing system with HDMI, link-local network (LLN), and USB connections to support custom conference rooms.

Poly Studio G62 is designed with simplified mounting and PoE+ class 4 power, so you can place it behind a display, under a table, or in an A/V rack. The Poly Studio G62 system supports Poly audio and video products over IP LLN as well as Poly and third-party products using the USB and 3.5 mm system ports.

The Poly Studio G62 system brings the following functionality to your conferencing space:

- Audio innovations such as NoiseBlockAI including Sound Reflection Reduction
- DirectorAI camera framing and tracking
- Configurable second network port for accessories
- Dual monitor 4K video
- Flexible installation with cable management
- USB-C DP Alt Mode port for content and device mode
- Wireless content sharing using Airplay or Miracast

## Poly G7500 System Features and Capabilities

G7500 systems support the following features:

- Peripheral cameras and microphones make the system scalable for medium rooms and up to large integrated rooms
- Placing and joining video calls
- Sharing wireless and wired content
- Camera tracking technology that can automatically zoom in on the person talking or frame the group of people in the room (depending on the paired camera and system configuration)
- Poly NoiseBlockAI, which eliminates background and extraneous sound during calls in common working environments
- Polycom Acoustic Fence technology, which enables video conferencing in open workspaces by capturing only the voices in a defined area
- HDMI: Single input and dual output
- Using a wired or wireless USB mouse as an input device

## Poly Studio X72 features and capabilities

Poly Studio X72 systems support the following features.

- Dual 4K 20MP cameras with 70-degree and 120-degree horizontal field of view ideal for large-size conference rooms.
- Poly Expansion microphone support using the RJ11 Poly Expansion microphone port
- High fidelity audio powered by built-in microphones that pick up sound within 7.62 m (25 ft)
- Poly Acoustic Fence technology shields your calls from distracting outside voices and sounds using your conference room microphones to create a defined sound zone
- Poly DirectorAI, which includes a perimeter feature plus group framing, speaker framing, and people framing
- Poly Lens Cloud support for setting up, configuring, and managing your device
- Multiple mounting options. Use the wall mount included with your Poly Studio X72, or purchase a VESA mount, or tabletop stand.

You can mount the Poly Studio X72 above or below a display. The Poly Studio X72 doesn't support inverted mounting. For more information, see the Poly Studio X72 quick start guides.

## Poly Studio X70 Features and Capabilities

### Poly Studio X70 Features and Capabilities

Studio X70 systems support the following features:

- All-in-one collaboration system for medium-to-large rooms
- No need for a separate PC, laptop, or codec to run video-conferencing software
- Placing and joining video calls
- Sharing wireless and wired content
- Dual built-in 4K cameras
- Camera tracking technology that automatically frames the group of people in the room
- Hi-fidelity, built-in stereo microphones that pick up sound within 7.62 m (25 ft) and use spatial audio for life-like presence and clarity
- Poly NoiseBlockAI, which eliminates background and extraneous sound during calls in common working environments
- HDMI: Single input and dual output
- Using a wired or wireless USB mouse as an input device

### Poly Studio X70 Mounting Orientation

You can mount the Studio X70 above or below a display. The Studio X70 doesn't support inverted mounting. For information on mounting the Studio X70, see the Studio X70 setup sheet.

## Poly Studio X52 Features and Capabilities

Studio X52 systems support the following features:

- All-in-one collaboration system for huddle rooms and small-to-medium rooms

- No need for a separate PC, laptop, or codec to run video-conferencing software
- Placing and joining video calls
- Sharing wireless and wired content
- Sharp 4K, 20MP camera with 95-degree horizontal field of view
- Camera tracking technology that automatically frames the group of people in the room
- Hi-fidelity, built-in stereo microphones that pick up sound within 7.62 m (25 ft) and use spatial audio for life-like presence and clarity
- Poly NoiseBlockAI, which eliminates background and extraneous sound during calls in common working environments
- Dual stereo speakers
- HDMI: Single input and dual output
- Simple to set up, manage, and use with Poly Lens

### **Poly Studio X52 Mounting Orientation**

You can mount the Studio X52 above or below a display. The Studio X52 doesn't support inverted mounting. For information on mounting the Studio X52, see the *Poly Studio X52 Quick Start Guide*.

## **Poly Studio X50 Features and Capabilities**

Studio X50 systems support the following features:

- All-in-one collaboration system for huddle rooms and small-to-medium rooms
- No need for a separate PC, laptop, or codec to run video-conferencing software
- Placing and joining video calls
- Sharing wireless and wired content
- Built-in 4K camera with ultra-wide 120-degree field of view
- Camera tracking technology that automatically frames the group of people in the room
- Hi-fidelity, built-in stereo microphones that pick up sound within 7.62 m (25 ft) and use spatial audio for life-like presence and clarity
- Poly NoiseBlockAI, which eliminates background and extraneous sound during calls in common working environments
- Dual stereo speakers
- HDMI: Single input and dual output
- Using a wired or wireless USB mouse as an input device

### **Poly Studio X50 Mounting Orientation**

You can mount the Studio X50 above or below a display. The Studio X50 doesn't support inverted mounting. For information on mounting the Studio X50, see the Studio X50 setup sheet.

## Poly Studio X30 Features and Capabilities

Studio X30 systems support the following features:

- All-in-one collaboration system for huddle rooms and small-to-medium rooms
- No need for a separate PC, laptop, or codec to run video-conferencing software
- Placing and joining video calls
- Sharing wireless and wired content
- Built-in 4K camera with ultra-wide 120-degree field of view
- Camera tracking technology that automatically frames the group of people in the room
- High-fidelity, built-in stereo microphones that pick up sound within 4.57 m (15 ft) and use spatial audio for life-like presence and clarity
- Poly NoiseBlockAI, which eliminates background and extraneous sound during calls in common working environments
- Single mono speaker
- HDMI: Single input and output
- Using a wired or wireless USB mouse as an input device

### Poly Studio X30 Mounting Orientation

You can mount the Studio X30 above or below a display. The Studio X30 supports inverted mounting. For information on mounting the Studio X30, see the Studio X30 setup sheet.

## Poly Studio X32 features and capabilities

Poly Studio X32 video bars support the following features.

- All-in-one collaboration system for small conference rooms
- Video conferencing apps built in—no need for a separate PC, laptop, or video conferencing system
- 4K, 20 megapixels, 120°, 5× zoom camera
- Poly DirectorAI smart camera framing technology
- Beamforming microphone array and dual speakers
- Poly NoiseBlockAI removes distracting noises and reverberation
- 2× HDMI output for dual display support
- Content sharing using HDMI
- Wireless content sharing using AirPlay or Miracast (Poly Video mode)
- Display clamp included (other mounting options are available, including wall mount and table mount)

You can mount a Poly Studio X32 video bar above or below a display and power the system with PoE++ (65W). For information on mounting your Poly Studio X32, refer to the Poly Studio X32 Quick Start Guide.

## Poly Studio E70 Camera Overview

Poly Studio E70 is a dual-camera solution for medium to large conference rooms.

The Poly Studio E70 includes the following features:

- Standalone USB 4K camera with full tracking and framing capabilities
- Visual coverage up to 7.6 m (25 ft)
- Microphones that provide accurate sound source location to support camera tracking

## Administrator Features and Capabilities

The G7500 and Studio X Family systems provide features for administrators to deploy, manage, and access systems.

These systems provide the following features and capabilities:

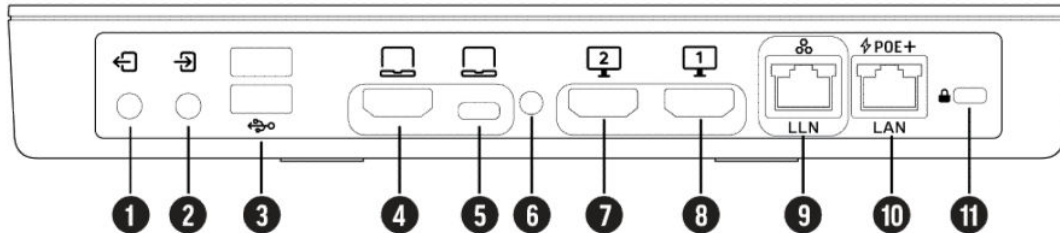
- Remote access for managing standalone systems
- Provisioning with Poly Clariti Manager to support single system, small business, and large multisite enterprise deployments
- SNMP reporting and remote logging
- Industry-standard security techniques, including 802.1X authentication

# Overview of system hardware

The figures and tables in the following topics provide information about hardware features available on your system.

## Poly Studio G62 system ports

The following diagram describes the ports available on a Poly Studio G62 system.



**Table 2-3** Poly Studio G62 Ports

| Item | Port                   | Description  |
|------|------------------------|--|
| 1    | 3.5 mm output          | Connects speakers to the system.   |
| 2    | 3.5 mm input           | Connects microphones to the system.  |
| 3    | USB Type-A ports (3.0) | Connects USB cameras or USB audio DSPs.  |
| 4    | HDMI input             | Provides the following options: <ul style="list-style-type: none"> <li>Connects an HDMI content source or HDMI camera.</li> <li>Use the system monitor when connected to a computer HDMI port.</li> </ul> Provides content sharing capabilities.   |
| 5    | USB Type-C port        | Provides the following options: <ul style="list-style-type: none"> <li>Use the system camera, speaker, and microphone from a connected laptop.</li> <li>Use the system camera, speaker, microphone, and monitor using a DP Alt-mode connection. Requires a supported DP Alt-mode cable and a computer with a USB Type-C port that supports DP Alt-mode.</li> </ul> |
| 6    | Pinhole reset          | Factory resets the system.   |
| 7    | HDMI 2                 | Connects a secondary monitor.  |
| 8    | HDMI 1                 | Connects a primary monitor.  |
| 9    | LLN port               | Connects IP peripherals such as a Poly IP microphone or Poly IP camera.<br><br>This port doesn't provide power. A PoE switch or PoE injector is required to power IP peripherals connected to the LLN port.  |

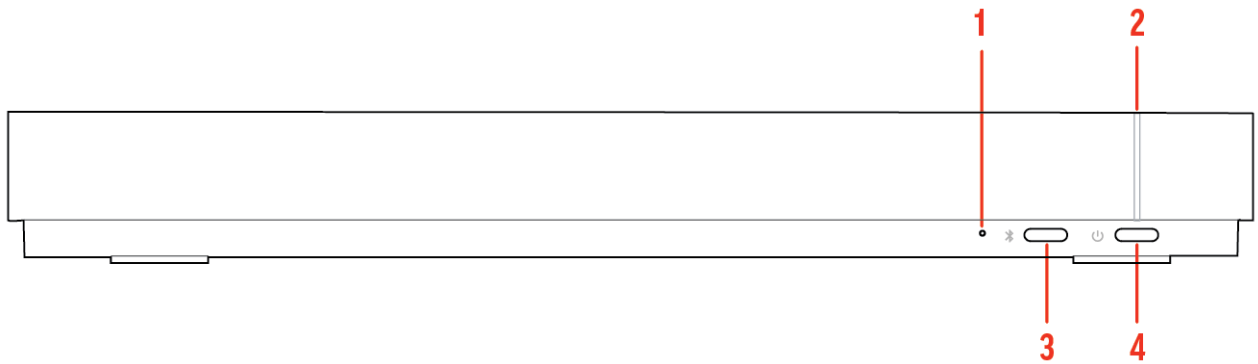


**Table 2-3 Poly Studio G62 Ports (continued)**

| Item | Port             | Description  |
|------|------------------|--|
| 10   | PoE+ power input | Powers the Poly G7500, Poly Studio G62, and Poly Studio X series system using a class 4 PoE+ injector or PoE+ switch.<br><br>Provides access to the corporate network. |
| 11   | Security lock    | Physically secures the system.   |

## Poly G7500 Hardware

The following figure displays the hardware features on the Poly G7500 system. The table lists each feature numbered in the figure.

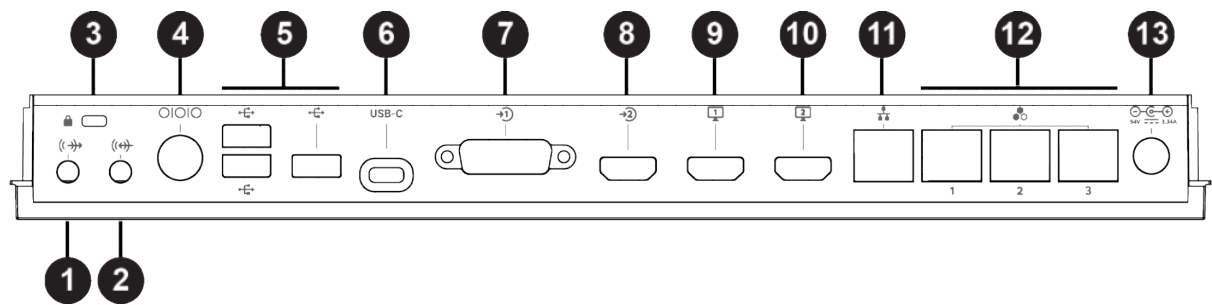


**Table 2-4 Poly G7500 Feature Descriptions**

| Ref. Number | Feature                       | Feature Description                                   |
|-------------|-------------------------------|---|
| 1           | Reset button                  | Resets the Poly G7500 to the factory software version |
| 2           | LED indicator                 | Indicates the system status                           |
| 3           | Remote control pairing button | Enables the Bluetooth remote control pairing mode     |
| 4           | Restart button                | Restarts your system                                  |

## Poly G7500 System Ports

The following illustration and table explain the ports on the back panel of your G7500 system.

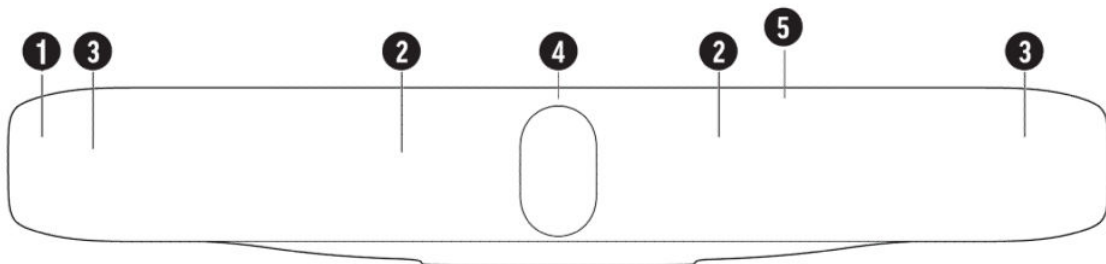


**Table 2-5 G7500 System Port Descriptions**

| Ref. Number | Port Description   |
|-------------|--|
| 1           | 3.5 mm audio line out  |
| 2           | 3.5 mm audio line in   |
| 3           | Security lock  |
| 4           | Mini-DIN/RS-232 serial port<br><b>NOTE:</b> The serial port is occasionally used by third party control system devices for automation. |
| 5           | USB-A ports  |
| 6           | USB-C port   |
| 7           | HDCI input for Polycom cameras   |
| 8           | HDMI input for sharing content (for example, from a laptop)  |
| 9           | HDMI output for the primary monitor  |
| 10          | HDMI output for the secondary monitor  |
| 11          | LAN connection for the system  |
| 12          | Link-local network (LLN) connections for IP-based peripheral devices   |
| 13          | Power cord port  |

## Poly Studio X72 hardware

The following illustration and table explain the hardware components on your Poly Studio X72 system.



**Table 2-6 Poly Studio X72 hardware components**

| Ref. Number | Feature          | Description   |
|-------------|------------------|---|
| 1           | Mesh screen      | Protective screen that covers the front of the system   |
| 2           | Microphone array | Microphone array that captures audio  |
| 3           | Speakers         | Audio output  |
| 4           | Dual cameras     | Camera array with a privacy shutter that automatically opens or closes, depending on the camera state |
| 5           | LED indicators   | Indicates the system status and information on the tracked speaker                                    |

## Poly Studio X72 privacy shutter behavior

The privacy shutter automatically opens and closes depending on the state of the connected video system.

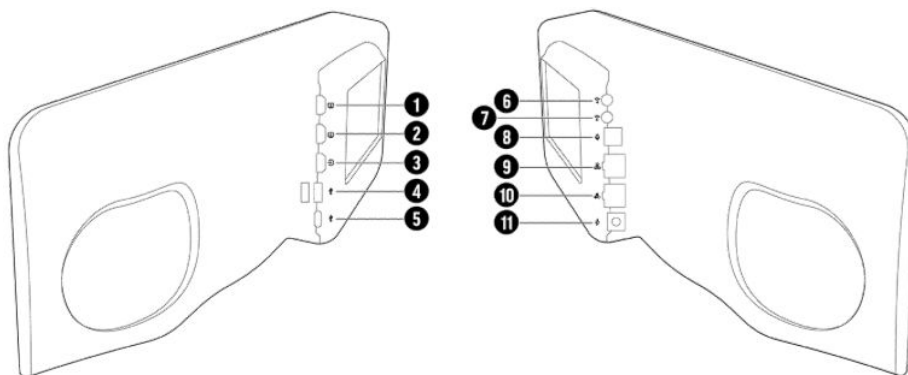
 **NOTE:** Shutter behavior may vary depending on the partner application.

**Table 2-7** Poly Studio X72 privacy shutter behavior

| System event  | Shutter behavior  |
|---|---|
| The system powers on  | Shutters open   |
| The system powers off   | Shutters close  |
|   | <b>NOTE:</b> If you remove power immediately, the shutters don't close. |
| The system enters sleep mode or digital signage starts and the <b>Camera Sleep Setting</b> is set to <b>Save Energy</b> | Shutters close  |
| The system enters sleep mode or digital signage starts and <b>Camera Sleep Setting</b> is set to <b>Fast Wake</b>       | Shutters remain open  |
|   | <b>NOTE:</b> When <b>Fast Wake</b> is set, the shutters never close.    |
| You wake the system   | Shutters open   |
| You wake the system and the built-in camera isn't the primary camera  | Shutters remain closed  |
| You select the built-in camera as the primary camera  | Shutters open   |
| The system receives an incoming call  | Shutters open   |
| The system is sending video   | Shutters are open   |
| The system is in an active call and the video is muted  | Shutters are open   |

## Poly Studio X72 hardware ports

The following illustration and table explain the hardware ports on your Poly Studio X72 system.



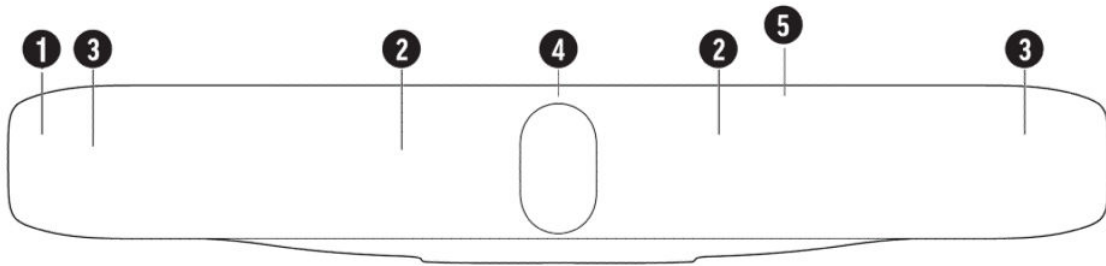
**Table 2-8** Poly Studio X72 hardware port descriptions

| Ref. Number | Port Description                      |
|-------------|---------------------------------------|
| 1           | HDMI output for the secondary monitor |
| 2           | HDMI output for the primary monitor   |

**Table 2-8 Poly Studio X72 hardware port descriptions (continued)**

| Ref. Number | Port Description  |
|-------------|---|
| 3           | HDMI input<br>Connects a laptop for content sharing or to use the system monitor in Device Mode<br>Connects an HDMI camera for use as an additional people camera |
| 4           | USB-A ports   |
| 5           | USB Type-C port (for Device Mode only)<br><b>NOTE:</b> Note: USB Type-C port is used for service, installation, and Poly Device Mode only.                        |
| 6           | 3.5 mm audio line in  |
| 7           | 3.5 mm audio line out   |
| 8           | Expansion microphone connection   |
| 9           | LAN connection for the system   |
| 10          | Link-local network (LLN) connections for IP-based peripheral devices (supported in a future Poly VideoOS release)   |
| 11          | Power cord port   |

## Poly Studio X70 Hardware

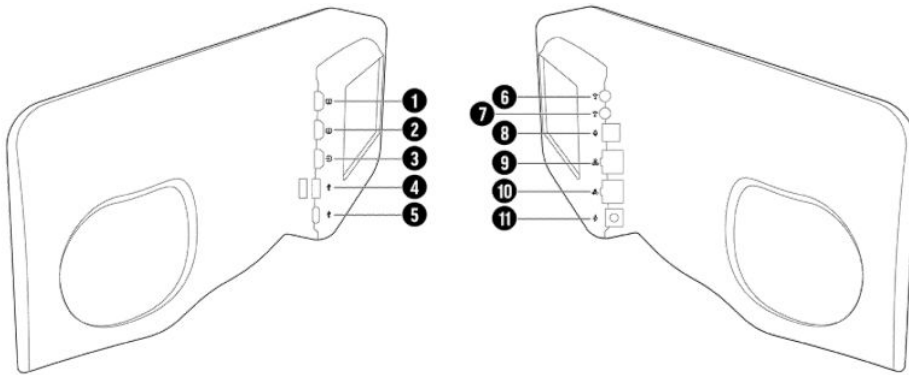


**Table 2-9**

| Ref. Number | Feature          | Description   |
|-------------|------------------|---|
| 1           | Screen           | Protective screen that covers the front of the system   |
| 2           | Microphone array | Microphone array that captures audio  |
| 3           | Speakers         | Audio output  |
| 4           | Dual cameras     | Camera array with a privacy shutter that automatically opens or closes, depending on the camera state |
| 5           | LED indicators   | Indicates the system status and information on the tracked speaker                                    |

## Poly Studio X70 System Hardware Ports

The following illustration and table explain the hardware ports on your Poly Studio X70 system.



**Table 2-10** Poly Studio X70 System Hardware Port Descriptions

| Ref. Number | Port Description   |
|-------------|--|
| 1           | HDMI output for the secondary monitor  |
| 2           | HDMI output for the primary monitor  |
| 3           | HDMI input for sharing content (for example, from a laptop)  |
| 4           | USB-A ports  |
| 5           | USB-C port   |
| 6           | 3.5 mm audio line in   |
| 7           | 3.5 mm audio line out  |
| 8           | Expansion microphone connection  |
| 9           | LAN connection for the system  |
| 10          | Link-local network (LLN) connections for IP-based peripheral devices<br><b>NOTE:</b> This port is disabled and is reserved for future use. |
| 11          | Power cord port  |

## Poly Studio X70 and Poly Studio X72 Privacy Shutter Behavior

The privacy shutter automatically opens and closes depending on the state of the connected video system.

### Poly Studio X70 Privacy Shutter Behavior

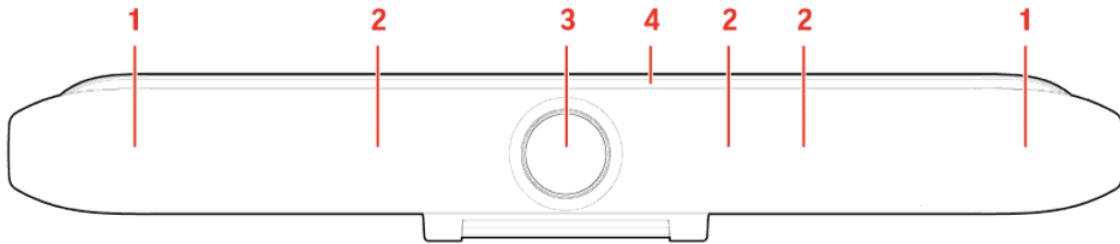
**NOTE:** Shutter behavior may vary depending on the partner application.

| System Event          | Shutter Behavior  |
|-----------------------|---|
| The system powers on  | Shutters open   |
| The system powers off | Shutters close<br><b>NOTE:</b> If you remove power immediately, the shutters don't close. |

| System Event  | Shutter Behavior   |
|---|--|
| The system enters sleep mode or digital signage starts and the <b>Camera Sleep Setting</b> is set to <b>Save Energy</b> | Shutters close   |
| The system enters sleep mode or digital signage starts and <b>Camera Sleep Setting</b> is set to <b>Fast Wake</b>       | Shutters remain open<br><b>NOTE:</b> When <b>Fast Wake</b> is set, the shutters never close. |
| You wake the system   | Shutters open  |
| You wake the system and the Studio X70 built-in camera isn't the primary camera   | Shutters remain closed   |
| You select the Studio X70 built-in camera as the primary camera   | Shutters open  |
| The system receives an incoming call  | If the shutters are closed, they remain closed until the call is answered                    |
| The system is sending video   | Shutters are open  |
| The system is in an active call and the video is muted  | Shutters are open  |

## Poly Studio X52 Hardware

The following figure displays the hardware features on the Poly Studio X52 system. The table lists each feature numbered in the figure.

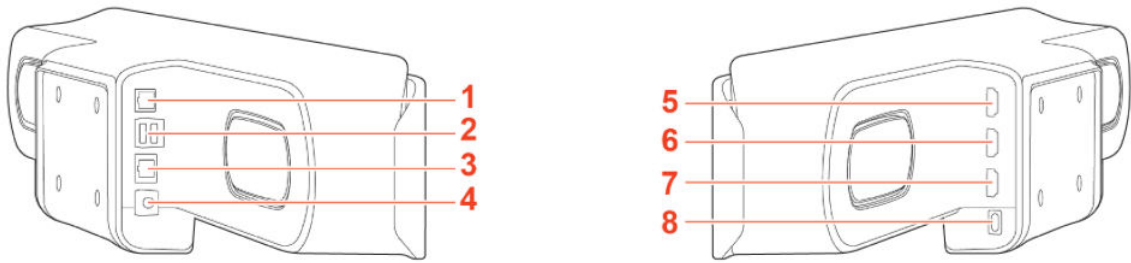


**Table 2-11** Poly Studio X52 Feature Descriptions

| Ref. Number | Feature          | Feature Description  |
|-------------|------------------|--|
| 1           | Speakers         | Audio output   |
| 2           | Microphone array | Microphone array that captures audio   |
| 3           | Camera           | Camera with a privacy cover that enables or disables the video input as you choose |
| 4           | LED indicators   | Indicates the system status and information on the tracked speaker                 |

## Poly Studio X52 System Ports

The following illustration and table explain the ports on your Poly Studio X52 system.

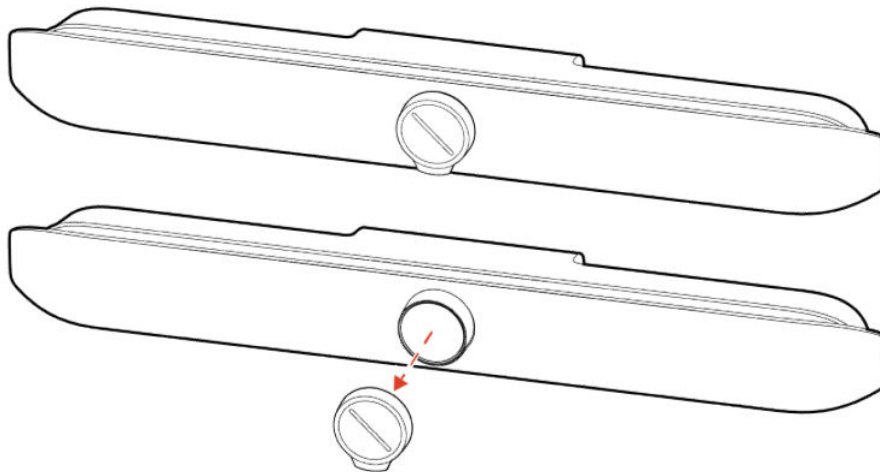


**Table 2-12 Poly Studio X52 System Port Descriptions**

| Ref. Number | Port Description                              |
|-------------|---|
| 1           | Poly Table Expansion Microphone connection    |
| 2           | USB-A ports                                   |
| 3           | RJ45 Ethernet port                            |
| 4           | Power port                                    |
| 5           | HDMI port for secondary monitor               |
| 6           | HDMI port for primary monitor                 |
| 7           | HDMI port for content sharing and Device Mode |
| 8           | USB-C port for Device Mode                    |

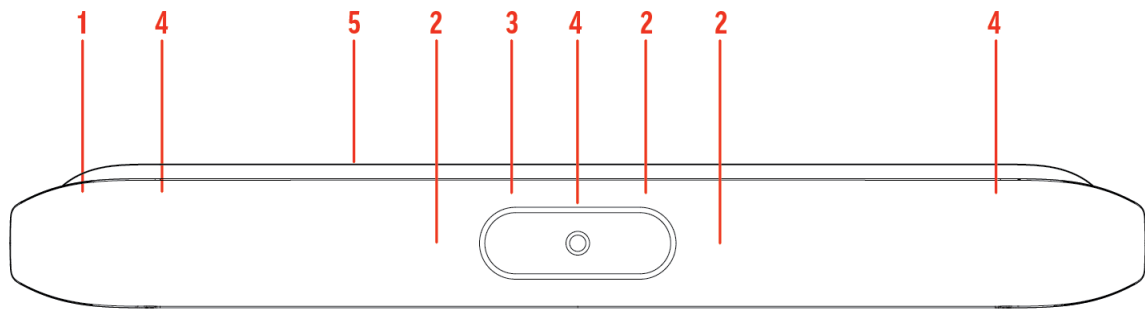
## Poly Studio X52 Privacy Cover

The Poly Studio X52 system provides a physical cover that you can place over the camera lens to protect your privacy.



## Poly Studio X50 Hardware

The following figure displays the hardware features on the Poly Studio X50 system. The table lists each feature numbered in the figure.

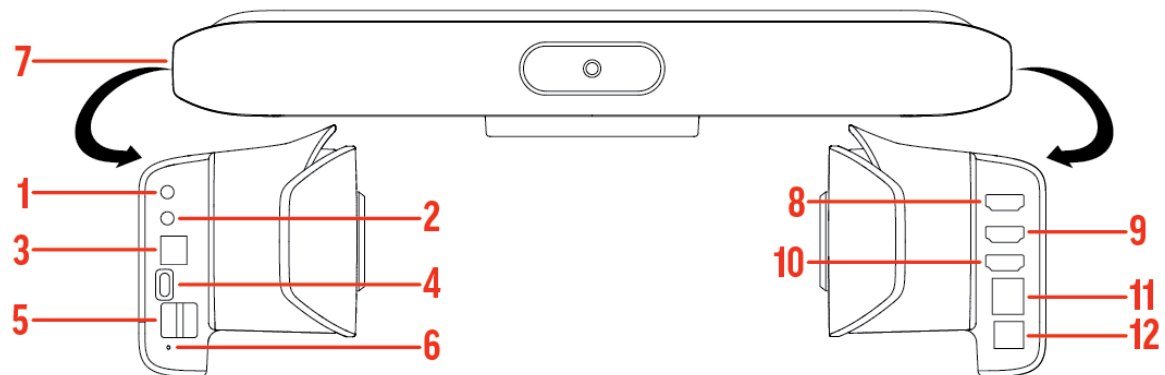


**Table 2-13 Poly Studio X50 Feature Descriptions**

| Ref. Number | Feature          | Feature Description  |
|-------------|------------------|--|
| 1           | Screen           | Protective screen that covers the front of your system                             |
| 2           | Microphone array | Microphone array that captures audio   |
| 3           | Camera           | Camera with a privacy cover that enables or disables the video input as you choose |
| 4           | Speakers         | Audio output   |
| 5           | LED indicators   | Indicates the system status and information on the tracked speaker                 |

## Poly Studio X50 System Ports

The following illustration and table explain the ports on your Poly Studio X50 system.



**Table 2-14 Poly Studio X50 System Port Descriptions**

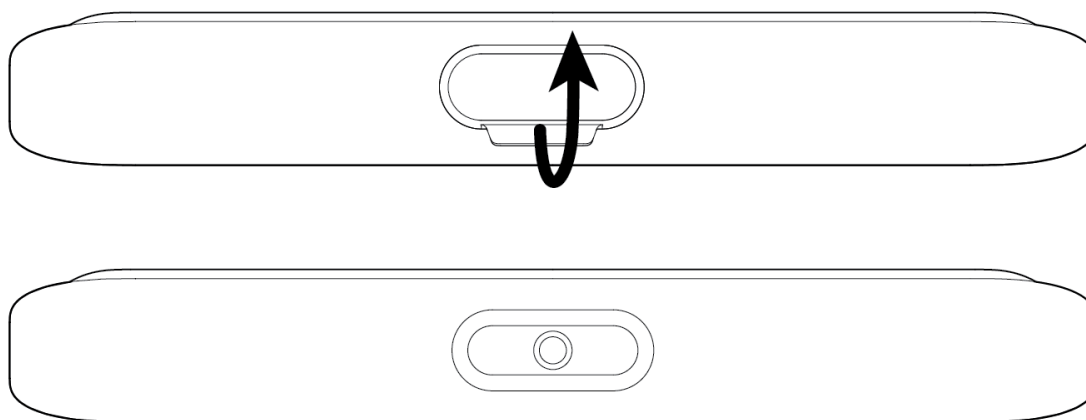
| Ref. Number | Port Description   |
|-------------|--|
| 1           | 3.5 mm audio line in                                       |
| 2           | 3.5 mm audio line out                                      |
| 3           | Polycom RealPresence Debut expansion microphone connection |
| 4           | USB-C port   |
| 5           | USB-A ports  |
| 6           | Factory restore pinhole                                    |
| 7           | Security lock (on the back flat section of the system)     |
| 8           | HDMI output for the secondary monitor                      |

**Table 2-14 Poly Studio X50 System Port Descriptions (continued)**

| Ref. Number | Port Description  |
|-------------|---|
| 9           | HDMI output for the primary monitor                         |
| 10          | HDMI input for sharing content (for example, from a laptop) |
| 11          | LAN connection for the system                               |
| 12          | Power cord port   |

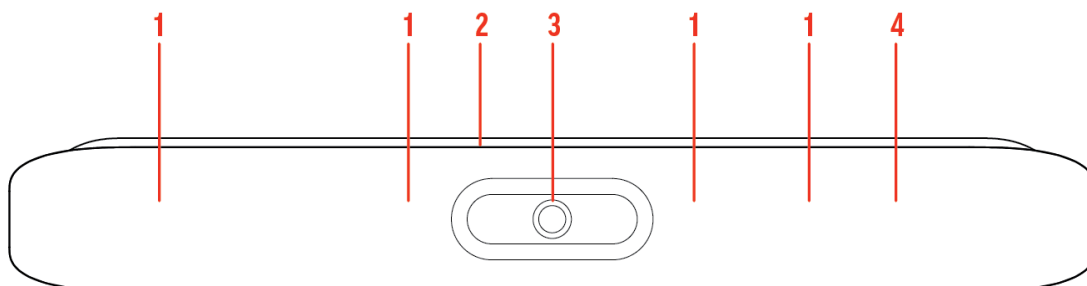
## Poly Studio X50 Privacy Cover

The Poly Studio X50 provides a physical cover that you can place over the camera lens to protect your privacy.



## Poly Studio X30 Hardware

The following figure displays the hardware features on the Poly Studio X30 system. The table lists each feature numbered in the figure.

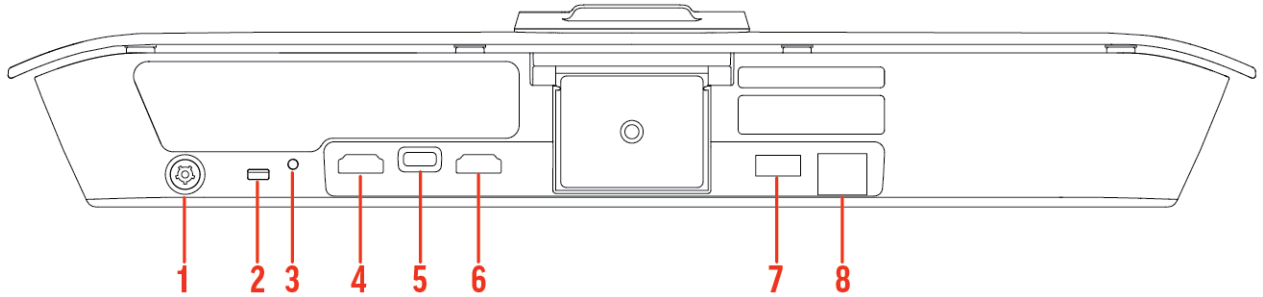


**Table 2-15 Poly Studio X30 Feature Descriptions**

| Ref. Number | Feature          | Feature Description  |
|-------------|------------------|--|
| 1           | Microphone array | Microphone array that captures audio   |
| 2           | LED indicators   | Indicates the system status and information on the tracked speaker                 |
| 3           | Camera           | Camera with a privacy cover that enables or disables the video input as you choose |
| 4           | Speaker          | Mono audio output  |

## Poly Studio X30 System Ports

The following illustration and table explain the ports on your Poly Studio X30 system.

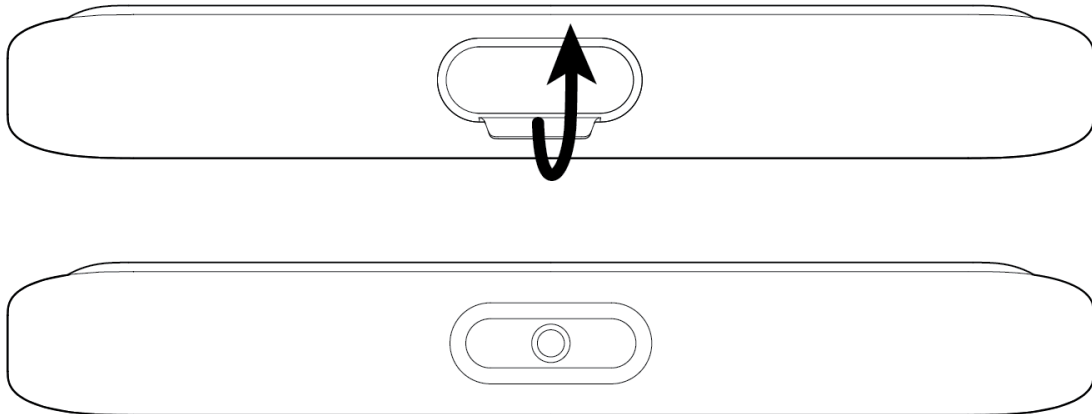


**Table 2-16** Poly Studio X30 System Port Descriptions

| Ref. Number | Port Description  |
|-------------|---|
| 1           | Power cord port   |
| 2           | Security lock   |
| 3           | Factory restore pinhole                                     |
| 4           | HDMI output for the primary monitor                         |
| 5           | USB-C port  |
| 6           | HDMI input for sharing content (for example, from a laptop) |
| 7           | USB-A ports   |
| 8           | LAN connection for the system                               |

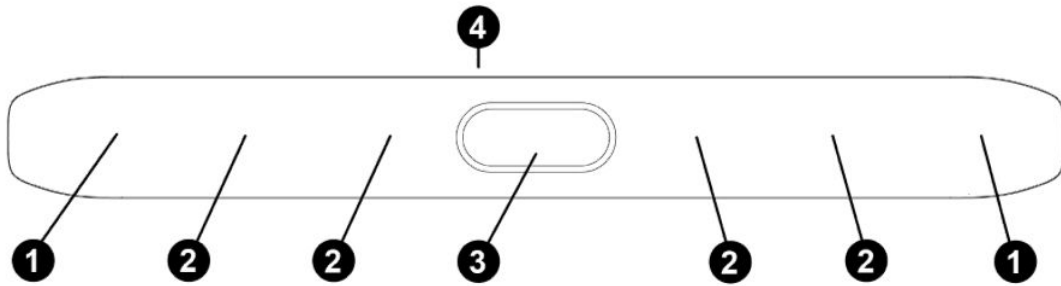
## Poly Studio X30 Privacy Cover

The Poly Studio X30 provides a physical cover that you can place over the camera lens to protect your privacy.



## Poly Studio X32 hardware

The following figure displays the hardware features on the Poly Studio X32 system. The table lists each feature numbered in the figure.

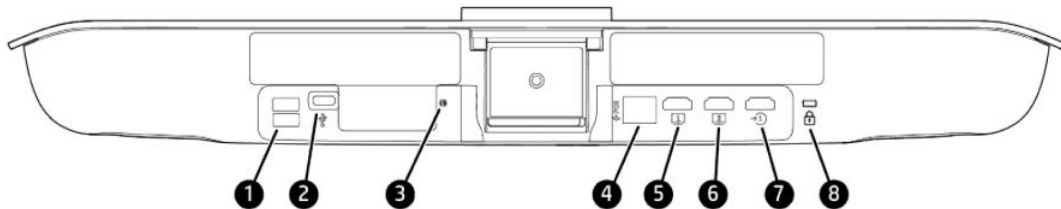


**Table 2-17** Poly Studio X32 feature descriptions

| Ref. Number | Feature     | Feature Description   |
|-------------|-------------|---|
| 1           | Speakers    | Dual speaker audio output   |
| 2           | Microphones | Microphone array that captures audio  |
| 3           | Camera      | Camera with a privacy cover that you can place over the camera lens to protect your privacy |
| 4           | LED         | Indicates the system status   |

## Poly Studio X32 system ports

The following illustration and table explain the ports on your Poly Studio X32 system.

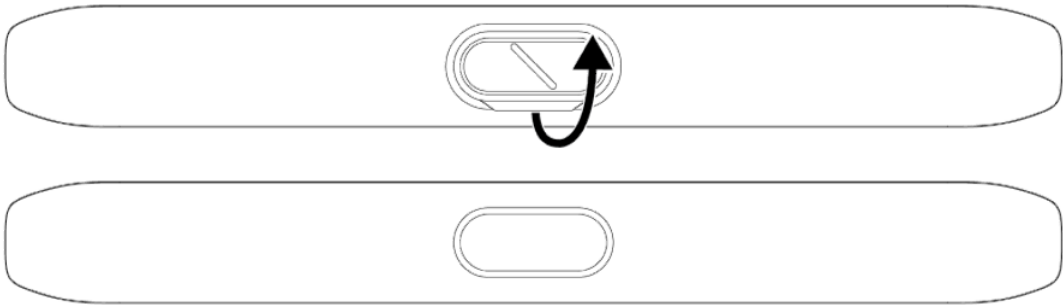


**Table 2-18** Poly Studio X32 system port descriptions

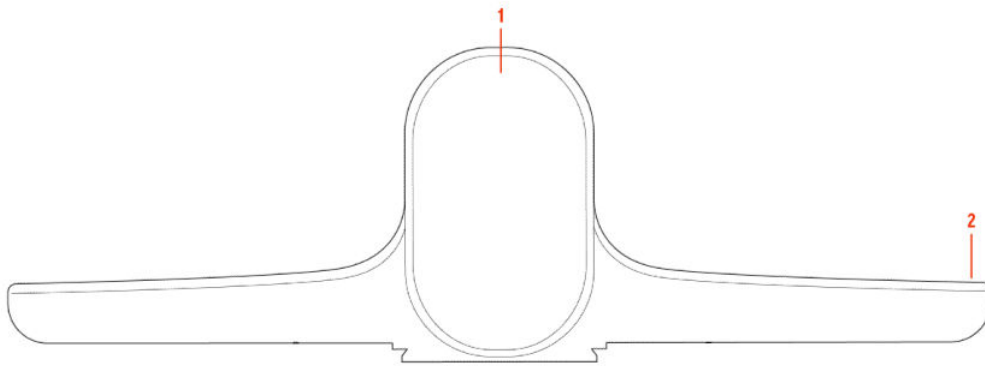
| Ref. number | Port description                                    |
|-------------|---|
| 1           | 2× USB Type-A ports for accessories                 |
| 2           | USB Type-C port for Poly Device Mode                |
| 3           | Pinhole reset                                       |
| 4           | LAN connection and system power using PoE++ (65W)   |
| 5           | HDMI output for the primary display                 |
| 6           | HDMI output for the secondary display               |
| 7           | HDMI input for Poly Device Mode and content sharing |
| 8           | Security lock                                       |

## Poly Studio X32 privacy cover

Poly Studio X32 includes a physical cover that you can place over the camera lens to protect your privacy.



## Poly Studio E70 Camera Hardware

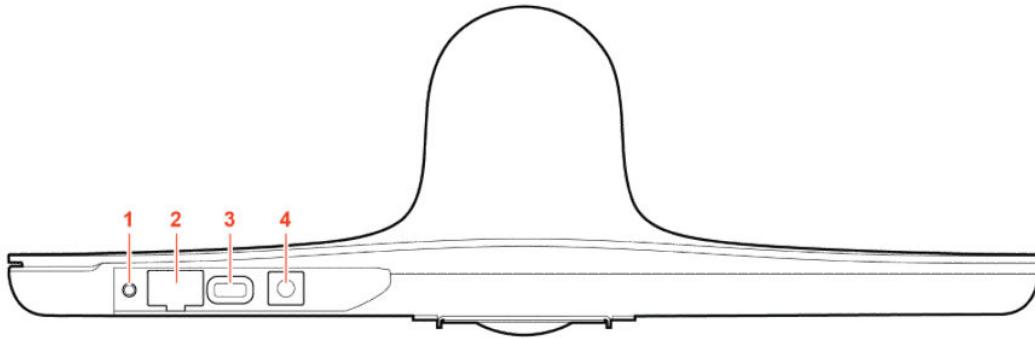


**Table 2-19** Poly Studio E70 Feature Descriptions

| Reference Number | Feature        | Description  |
|------------------|----------------|--|
| 1                | Dual-cameras   | Camera array with a privacy shutter that automatically opens or closes depending on the camera state |
| 2                | LED indicators | Front and right indicators that show the status of the camera  |

## Poly Studio E70 Ports

The following illustration and table explain the ports on your Poly Studio E70 camera.



**Table 2-20 Poly Studio E70 Port Descriptions**

| Ref. Number | Port Description   |
|-------------|--|
| 1           | Reset button   |
| 2           | Ethernet port (Can be used to provide power to the camera) |
| 3           | USB-C port   |
| 4           | Power cord port  |

## Poly Studio E70 Privacy Shutter Behavior

The privacy shutter automatically opens and closes depending on the state of the connected video system.



**NOTE:** Shutter behavior may vary depending on partner application.

**Table 2-21 Poly Studio E70 shutter behavior**

| System event  | Shutter behavior  |
|---|---|
| The system powers on  | Shutters open   |
| The system powers off   | Shutters close  |
|   | <b>NOTE:</b> If you remove power immediately, the shutters don't close. |
| The system enters sleep mode or digital signage starts and the <b>Camera Sleep Setting</b> is set to <b>Save Energy</b> | Shutters close  |
| The system enters sleep mode or digital signage starts and <b>Camera Sleep Setting</b> is set to <b>Fast Wake</b>       | Shutters remain open  |
|   | <b>NOTE:</b> When <b>Fast Wake</b> is set, the shutters never close.    |
| You wake the system   | Shutters open   |
| You wake the system and the Studio E70 isn't the primary camera   | Shutters remain closed  |
| You select the Studio E70 as the primary camera   | Shutters open   |
| The Studio E70 isn't the primary camera and is idle for five minutes  | Shutters close  |

**Table 2-21 Poly Studio E70 shutter behavior (continued)**

| <b>System event</b>                                    | <b>Shutter behavior</b>   |
|--|---|
| The system receives an incoming call                   | If the shutters are closed, they remain closed until the call is answered |
| The system is sending video                            | Shutters are open   |
| The system is in an active call and the video is muted | Shutters are open   |

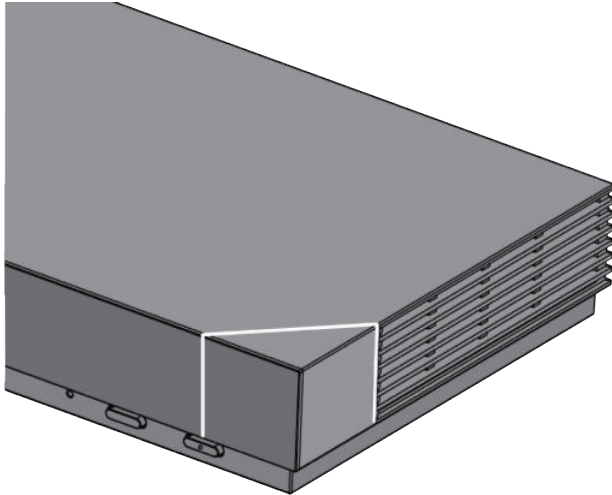


# LED Status Indicators

The following topics list the LED behavior for your system. The tables list each LED indicator and its associated status.

## LED Status Indicators for the Poly G7500 System

Use the LED on the front right corner of the codec to get information on the state of your system.



**Table 2-22** Poly G7500 System LED Status Indicators

| Indicator      | Status                            |
|----------------|-----------------------------------|
| Blinking white | Powering on                       |
| Solid white    | Working normally                  |
| Solid green    | In a call                         |
| Blinking amber | Update in progress.               |
| Solid amber    | Sleeping                          |
| Blinking red   | Error preventing normal operation |
| Solid red      | Muted microphone                  |

## LED status indicators for the Poly Studio X72 and Poly Studio X70 systems

Use the LED on the right side of the system to help you understand the system's behaviors.

**Table 2-23** Poly Studio X72 and Poly Studio X70 LED Indicators and Status

| Indicator               | Status  |
|-------------------------|---|
| Solid white             | Device is idle and standing by                |
| Pulsing white           | Boot initiation in progress                   |
| Pulsing amber           | Firmware update or factor restore in progress |
| Blinking blue and white | Bluetooth pairing                             |
| Solid blue              | Bluetooth paired                              |

**Table 2-23 Poly Studio X72 and Poly Studio X70 LED Indicators and Status (continued)**

| Indicator   | Status                  |
|-------------|-------------------------|
| Solid green | Active call in progress |
| Solid red   | Audio mute              |

## LED Status Indicators for Poly Studio X50 and Poly Studio X30 Systems

The system provides an LED light bar above the camera to help you understand the system's behaviors.

**Table 2-24 Poly Studio X50 and Studio X30 LED Indicators and Status**

| Indicator                 | Position  | Status  |
|---------------------------|---|---|
| Solid white               | All   | Boot initialization in progress   |
| Blinking blue             | Twelve in the middle  | Bluetooth in discover   |
| Solid blue for 3 seconds  | All   | Bluetooth paired  |
| Blinking green            | All   | Incoming call   |
| Solid green               | All   | Outgoing call   |
| Solid green               | Four to eight (when in the middle), indicating the tracked speaker or the direction of the camera | Working<br><br>The lights are green with supported applications in the following cases: <ul style="list-style-type: none"> <li>Tracking people in group framing and speaker tracking mode</li> <li>Indicating the direction of the camera that you customize in pan-tilt-zoom (PTZ) mode</li> </ul> |
| Solid amber               | Twelve in the middle  | Standing by<br><br>System in sleep mode with no active video output   |
| Pulsing red               | Twelve in the middle  | Call on hold  |
| Pulsing green             | Twelve in the middle  | Call on hold (by far site)  |
| Solid white for 3 seconds | Twelve in the middle  | Saving a preset   |
| Solid red                 | All   | Muted microphone  |
| Solid red                 | Four in the middle  | Muted camera<br>Muted microphone LEDs take precedence over camera mute LEDs   |
| Pulsing amber             | All   | Firmware update in progress   |
| Blinking red              | All   | Error preventing normal operation   |
| Blinking amber            | Twelve alternating  | In a POST sequence, at least one test results in a warning error. The system continues to blink amber but initializes after the sequence is complete if no severe errors occur.   |

## LED status indicators for Poly G7500, Poly Studio G62, and Poly Studio X series systems

Use the LED on the front of the system to help you understand the system's behaviors.

**Table 2-25** Poly G7500, Poly Studio G62, and Poly Studio X series indicators and status

| Indicator               | Status   |
|-------------------------|--|
| Solid white             | Device is idle and standing by                 |
| Pulsing white           | Start initiation in progress                   |
| Pulsing amber           | Firmware update or factory restore in progress |
| Blinking blue and white | Bluetooth pairing                              |
| Solid blue              | Bluetooth paired                               |
| Solid green             | Active call in progress                        |
| Solid red               | Audio muted                                    |

## LED Status Indicators for the Poly Studio E70 Camera

The camera provides LED indicators on the front and right side of the camera to help you understand the camera's behaviors when connected to a Poly Studio G62, Poly G7500, or Poly Studio X system.

**Table 2-26** Poly Studio E70 Camera System LED Status Indicators

| Color and Pattern             | Status  |
|-------------------------------|---|
| Pulsing white                 | Boot initialization is in progress                          |
| Solid white (50% brightness)  | Powered on but disconnected from video system<br>Sleep mode |
| Solid white (100% brightness) | Powered on and connected to the video system                |
| Solid green                   | In a call or the camera is active                           |
| Pulsing amber                 | Firmware update or factory reset in progress                |
| Flashing blue                 | Camera is IP pairing  |

**NOTE:** If LED continues to flash blue, unplug and then replug the Poly Studio E70 camera.

## Powering the System On and Off

The system powers on when you plug it in to a power source.

Poly recommends the following when powering off or restarting your system:

- Don't restart or power off the system during maintenance activities (for example, while a software update is in progress).


## Wake the System

After a period of no activity, the system enters sleep mode (if configured by your administrator). You can wake it using a touch monitor or Poly TC8.

- Do one of the following:
  - If you're using a touch monitor, tap the primary screen.
  - If you're using the TC8, tap the screen.
  - If you're using a Poly Trio, tap the screen.

## Accessibility Features

Poly products include a number of features to accommodate users with disabilities.

 **NOTE:** Accessibility features for Poly Studio G62 include peripherals required for system functionality included connected cameras, microphones, speakers, and monitors.

### Users Who Are Deaf or Hard of Hearing

Your system includes accessibility features so that users who are deaf or hard of hearing can use the system.

The following table lists the accessibility features for users who are deaf or hard of hearing.

**Table 2-27** Accessibility Features for Users Who Are Deaf or Hard of Hearing

| Accessibility Feature   | Description  |
|-------------------------|--|
| Visual notifications    | Status and icon indicators let you know when you have incoming, outgoing, active, or held calls. Indicators also alert you of the device's status and when features are enabled. |
| Status indicator lights | The system uses LEDs to indicate some statuses, including if your microphones are muted.   |
| Adjustable call volume  | While in a call, you can raise or lower the volume of the device.  |
| Auto-answering          | You can enable the system to auto-answer calls.  |

### Users Who Are Blind, Have Low Vision, or Have Limited Vision

Your system includes accessibility features so that users who are blind, have low vision, or have limited vision can use the system.

The following table lists the accessibility features for users who are blind, have low vision, or have limited vision.

**Table 2-28** Accessibility Features for Users Who Are Blind, Have Low Vision, or Have Limited Vision

| Accessibility Feature         | Description  |
|-------------------------------|--|
| Auto-answering                | You can enable the system to auto-answer calls.  |
| Adjustable backlight settings | You can change the brightness of the screen by adjusting backlight intensity settings.   |
| Visual notifications          | Status and icon indicators let you know when you have incoming, outgoing, active, or held calls. Indicators also alert you of the device's status and when features are enabled. |

### Users with Limited Mobility

Your system includes accessibility features so that users with limited mobility can use various system features.

The following table lists the accessibility features for users with limited mobility.

**Table 2-29 Accessibility Features for Users with Limited Mobility**

| Accessibility Feature                    | Description   |
|--|---|
| Alternative control interface            | This product provides an alternative control interface for the connected video conferencing system for people with disabilities that cause limited manipulation issues. |
| Auto-answering                           | You can enable the system to auto-answer calls.   |
| Calling from a personal device           | With administrator credentials, you can wirelessly access the system web interface from your own device to make calls and manage contacts and favorites.                |
| Flexible mounting/display configurations | Product isn't stationary and can be mounted or displayed in various configurations. Touch controls require minimal strength to operate.                                 |



---

## 3 Sharing Content

To enhance the collaboration experience, you can share documents, graphics, and videos with other participants using a computer.

### Share Content Using an HDMI Connection

Share content from your device through an HDMI connection. This method doesn't require you to connect using a wireless service.

- Connect your device to the video system's HDMI input port.

---


## 4 Using device mode

Poly Device Mode enables you to use the system's camera, speaker, microphone, and connected monitors from your computer.

Once you connect the system to your computer with a USB cable, you can control the video system's camera and audio features using your computer's third-party conferencing application.

For example, instead of using your computer's camera for Zoom Rooms calls, connect the Studio X30 and use its 4K camera to automatically follow the conversation in the room. You also gain a Poly echo-cancelling microphone and speaker technology during calls.

---

 **NOTE:** The system doesn't support hot plugging cameras. To connect a camera to the system, power the system off, connect the camera, and restart the system.

---

### Computer and cable requirements for Device Mode

Your computer and cables must meet the following requirements to use Device Mode.


Operating system requirements:

- Windows 10 1803 or later
- macOS 10.12 or later

USB cable requirements:

- A cable with at least one USB-C connection for the video system
- USB 2.0 or USB 3.0 cable (preferred to ensure connection reliability and video and audio quality)
- Self-powered USB booster extension cable for connections longer than 2 m (6.6 ft)

---

 **NOTE:** Don't use a cable used for charging devices. A charging cable may not be capable of sending data.

---


HDMI cable requirements:

- An HDMI adapter is required if your computer doesn't have an HDMI port.


## Access Device Mode

Use the system touchscreen or a TC10 or TC8 touch controller to start Device Mode.

---

 **NOTE:** Your administrator may configure your system to remain in Device Mode. If your system is already in Device Mode, the system monitor and TC10 or TC8 touch controller prompt you to connect a USB and HDMI cable to your computer.

---

- Do one of the following:
  - From the right border of your screen, swipe left. Select **Device Mode** .
  - When using Zoom Rooms, connect the USB-C cable to the video system and connect the other end of the USB cable to your computer to automatically enter Device Mode.

The *Device Mode* screen appears.


## Use your system as a computer accessory

To use the video system as an external camera and audio accessory, set your system to Device Mode and connect your Windows or macOS computer with a USB cable.

If your system isn't already in Device Mode, access **Device Mode**. If your conferencing application uses echo cancellation, disable that feature.

You must use a cable with at least one USB-C connection for your video system. If you use a cable with only one USB-C connection, the USB-C end must connect to your video system for Device Mode to work properly.

---

 **NOTE:** Device Mode isn't available if your system administrator disables the system USB ports. If you need help with Device Mode or connecting a computer to your system, contact your administrator.

---

1. Connect a USB-C end of the USB cable to the video system's USB-C port, and connect the other end of the USB cable to your computer.

The system monitor and the TC10 or TC8 touch controller display a confirmation message.

If you're using Microsoft Teams or Zoom Rooms, Device Mode automatically starts when you connect the USB cable to your computer. Once you disconnect the USB cable, the system automatically exits Device Mode in 20 to 30 seconds.

2. **Optional:** To display your computer on the video system monitor, connect your computer using the system's HDMI input port.

## Adjust the system audio and camera settings in Device Mode


In Device Mode, you can mute the system, adjust the volume, and adjust camera settings.

Access **Device Mode** and connect your computer to the system.


---

 **NOTE:** The controls on a connected Poly Trio phone don't work if the system is in Device Mode.

---

1. To mute the microphones, do one of the following:
  - In a conference application on your computer, select mute.
  - On the touch controller or any connected microphone, select **Mute** .
2. To adjust the volume, do one of the following:
  - On the touchscreen or TC10 or TC8, select **Volume** and adjust the volume slider.
  - Adjust the volume from your computer using the computer or conference application settings.

---

 **NOTE:** Ensure that you select the correct device when adjusting the volume. Changing the volume alone may not work. You must select the Poly video system as the audio device.

---

3. To configure camera settings:
  - a. From the right border of the TC10 or TC8 or the touchscreen, swipe left and select **Camera Settings**.
  - b. Select **Camera Control**.
    - Turn **Camera Tracking** on or off.
    - Select or set a **Preset**.
    - Press **+** to zoom in or **-** to zoom out.
    - Press the arrows to tilt up and down or to pan left to right.

## Managing incoming calls when in Device Mode

If there's an incoming call, your video system may exit Device Mode. This depends on the partner conferencing application you're using for the video system.


## Exit Device Mode and disconnect your computer

Any camera options you change on the video system with your USB-connected computer revert to their previous settings when you exit Device Mode.

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 **NOTE:** If the system is using Device Mode as the provider, **Exit**  isn't available.

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- Do one of the following:
  - On the video system local interface or TC10 or TC8 touch controller, select **Exit** .
  - Unplug the cables connecting your computer and video system. After a short delay, you see the home screen (even if you haven't selected **Exit**).

---

# 5 Settings

Before or during calls, you can adjust the system volume. During calls, you can adjust your camera's position.



# Cameras

Depending on the camera type, you can control the following options:

- Adjust near-site (local) camera positions.
- Turn tracking on or off.

## Adjust an In-Room Camera

To enhance the view of meeting participants, make adjustments to the in-room camera.

If camera tracking is on, camera control is unavailable. Turn tracking off to access camera controls.



You can only make camera adjustments during a call.

With the Studio X50 and Studio X30 systems, you can't pan or tilt the camera if it's zoomed all the way out.

1. From the right border of your screen, swipe left.
2. Go to **Camera Settings > Camera Controls**.
3. Press **+** to zoom in or **-** to zoom out. Press the arrows to tilt up and down or to pan left to right.
4. To exit the control screen, select **Back** ←.

## Turn Camera Tracking On or Off

When camera tracking is on, the camera automatically frames the group of people in the room or the current speaker (depending on your camera and how your system is configured).

1. From the right border of your screen, swipe left.
2. Select **Camera Settings**.
3. Select **Tracking On**  or **Tracking Off** .

# Audio Adjustments

You can control several audio settings on the system.

## Adjust the Volume

You can adjust the volume before or during a call.

- Use the volume slider on the device controlling your video system.



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# 6 Troubleshooting

This section includes information related to troubleshooting issues with your system. You can also find information on pairing your remote, configuring your monitors, and where to find help tips.



# Poly Device Mode

Use these topics to troubleshoot problems you may encounter using Device Mode.

## Audio Levels are Too High or Low

In Device Mode, audio from the video system speakers is too loud or it's difficult to hear call participants.

In Device Mode, your conferencing application and laptop control the video system's audio. You may need to adjust those volume controls.

Follow these steps until you get the audio levels you want:

1. Adjust your conferencing application's volume.
2. Adjust your laptop's volume.

## Conferencing Application Doesn't Use System Camera or Audio

Your conferencing application isn't using the video system's camera or audio in Device Mode.

Your conferencing application by default may choose the connected monitor speakers instead of, for example, the Studio X50 speakers.

- In your conferencing application, select the video system as your speaker, microphone, and camera device.

## Can't Use System's Camera or Audio

Your conferencing application isn't using the video system's camera or audio in Device Mode. There could be a few reasons for these types of problems. For instance, your conferencing application by default may choose the connected monitor speakers instead of, for example, the Studio X50 speakers.

You may notice the following while using Device Mode:

- In your laptop's conferencing application, you can't select the video system as a camera or audio source.
- The video system's camera and audio seem unavailable.
- The video system's camera doesn't display live video.

Follow these steps until you fix your problem:

1. In your conferencing application, select the video system as your speaker, microphone, and camera device.
2. In your laptop settings, select the video system as your speaker, microphone, and camera device.
3. Exit and restart Device Mode.
4. Replug the USB cable.
5. Connect the cable to a different USB port on your laptop.
6. Try using a different USB cable.



7. Restart your laptop.

## Improve Audio Quality

Audio quality during calls in Device Mode could be better. For example, people on the call notice interference or dropped words when you're speaking.

You may encounter these problems for the following reasons: additional USB connections, a bad cable, or audio processing settings.

Follow these steps until your audio quality improves:

1. Remove USB audio devices (such as a headset) connected to your laptop.
2. Connect your laptop and video system with a different USB cable.
3. If your conferencing application uses echo cancellation, disable that feature.
4. If you're playing a musical instrument, enable M-Mode in the system web interface.

## Improve Laptop Screen Mirroring

When mirroring your laptop screen with an HDMI connection, the picture on the connected monitor isn't ideal.

The resolution on your laptop may need to be adjusted for the monitor connected to the Poly video system.

Follow these steps until screen mirroring quality improves:

1. Adjust your laptop's resolution settings.
2. Adjust your laptop's display settings so the screen duplicates on the monitor.

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# 7 Getting help

Poly is now a part of HP. The joining of Poly and HP paves the way for us to create the hybrid work experiences of the future. Information about Poly products has transitioned from the Poly Support site to the HP Support site.

The [Poly Documentation Library](#) is continuing to host the installation, configuration/administration, and user guides for Poly products in HTML and PDF format. In addition, the Poly Documentation Library provides Poly customers with information about the transition of Poly content from Poly Support to [HP Support](#).

The [HP Community](#) provides additional tips and solutions from other HP product users.

## HP Inc. addresses

### HP US

HP Inc.  
1501 Page Mill Road  
Palo Alto 94304, U.S.A.  
650-857-1501

### HP Germany

HP Deutschland GmbH  
HP HQ-TRE  
71025 Boeblingen, Germany

### HP UK

HP Inc UK Ltd  
Regulatory Enquiries, Earley West  
300 Thames Valley Park Drive  
Reading, RG6 1PT  
United Kingdom

## Document information

**Model ID:** Poly Bluetooth® Remote Control (model: P010), Poly IR Receiver (model: BW7650), Poly IR Remote (model: BW7600), Poly Microphone IP Adapter (model: P012), Poly IP Table Microphone (model: P013), Poly IP Ceiling Microphone (model: P014), Poly Studio X70 (model: P026), Poly Studio X50 (model: P017), Poly Studio X30 (model: P018), Poly Studio E70 (model: P025), Poly TC10 (model: P030), Poly TC8 (model: P020), Poly Studio G62 (Radio model: PBJ-STG-62R, No radio model: PBJ-STG-62N), Poly Studio X72 (Radio model: PATX-STX-72R, No radio model: PATX-STX-72N)

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